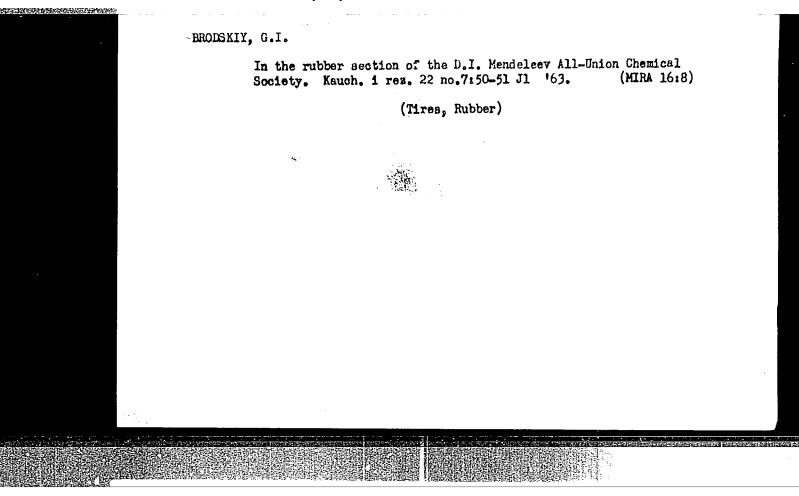
I 14409-63 BMP(j)/BMT(m)/BDS AFFTC/ASD Pc-li ACCESSION NR: AP3003289 \$/0138/63/000/006/0020/0026 AUTHORS: Sakhnovskiy, N. L.; Reznikovskiy, M. M.; Yeystratov, V. F.; Brodskiy, TITLE: Effect of vulcanized rubber coatings and of test types on the type and SOURCE: Remeluk i rezina, no. 6, 1963, 20-26 TOPIC TAGS: vulcanized rubber, almasion, wear ABSTRACT: In the present investigation various types of west in car and truck tires were studied under road conditions and by testing machines. The findings were correlated with the kind of stock used for tire tread, supplemented by microscopic analysis of tread sections. It was found that on modern class A roads under standard. speeds and loads the tread was wearing off after approximately 20 000 revolutions of the wheel, the surface of the tire being smooth and showing the so-called fatigue-type wear. On class B roads, on the other hand, the abrasive type of wear bacame predominant, while the presence of 1% sharp curves increased the wear fourfold. Other types of wear were also studied, and the relationship of the type and rate of wear of protective stock to the modulus and tensile and tear resistance Cord 1/2

L 111109-63 ACCESSION NR: AP3003289 charted. Experimental evidence was obtained that tear and wear causes an intensive destruction of the molecules of natural rubber, as evidenced by a 2.4 times increase in solubility in chloroform after 72 hours storage at 1000, and a tenfold increase following rubbing against a concrete surface for the same duration. Since the internal temperature in this case was 40C, it was concluded that the change in solubility was due to mechano-chemical destruction of the polymer. Further support of this point of view was obtained by subjecting natural rubber three times to a 450% stretch, which resulted in a sharply lowered hardness and resistance to tear. Orig. paper has: 7 figures and 3 tables. ASSOCIATION: Nauchno-issledovatel'skiy institut shimoy promy*shlennosti (Scientific Research Institute of the Tire Industry) SUBMITTED: 00 DATE ACQ: 10Jul63 ENCL: 00 SUB CODE: NO REF SOV: 005 OTHER: 00 Card 2/2



KOZLOVA, O., doktor ekon. nauk, prof.; BRODSKIY, G.; DUDORIN, V.; MITIN, S.; NIKONOVA, L.; SALOMATIN, N.; BUDARINA, V., red.; KIRSANOVA, I., mlad. red.; ULANOVA, L., tekhn. red.

[Use of electronic computers in production control] Primenenie elektronno-vychislitel'nykh mashin v upravlenii proizvodstvom. [By] O.Kozlova i dr. Moskva, Izd-vo "Mysl', 1964. 508 p. (MIRA 17:4)

L h283-66 ENT(d)/EVIT(m)/EPF(c)/EVIP(v)/EVIP(1)/EVIP(h)/T/EVIP(1) RM/ACCESSION NR: AP5024107 UR/0138/65/000/009/0030/0034 678.063:539.431 AUTHOR: Kragel'skiy, I. V.; Reznikovskiy, M. M.; Brodskiy, G. I.; Nepomnyashchi Ye. F. TITLE: Friction-contact fatigue of highly elastic materials SOURCE: Kauchuk i rezina, no. 9, 1965, 30-34 TOPIC TAGS: rubber, fatigue test, mechanical fatigue, friction, test instrumentation ABSTRACT: An experimental study of the contact fatigue of rubbers was carried out at the IMASh with a "Tsiklometr" instrument and at the NIIShP with a "PUPS" instrument. Both of these instruments and their operation are described. To establish the behavior of the friction-contact fatigue of rubbers, use was made of the elementary model of friction, consisting of a spherical indenter which simulates a projection of a rough surface and repeatedly deforms the rubber surface. Curves of contact fatigue were obtained for tread rubbers based on SKB NK Europrene, and an uncompounded NK-base rubber. The contact and volume fatigue were found to behave in similar fashion; in both cases, the fatigue resistance coefficients were similar. A comparison of the curves of the volume Card 1/2

L 4283-66
ACCESSION NR: AP5024107
and friction-contact fatigue leads to the conclusion that in friction-contact fatigue, the breaking stress is the tensile stress of the surface layer due to the frictional force. The data obtained confirm the relationship between the wear resistance of rubber and its fatigue resistance. Orig. art. has: 6 figures and 2 formulas.
ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Tire Industry); Gosudarstvennyy nauchno-issledovatel'skiy
institut mashinovedeniya (State Scientific Research Institute of Machine Science)
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L 350h0-65 ENT(m)/EPF(c)/ENP(j) Pc-h/Pr-h RN/GS

ACCESSION NR: AT5004094

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25

AUTHOR: Reznikovskiy, M. M.; Brodskiy, G. I.

8+1

TITLE: Characteristics of the wear mechanism of highly elastic materials

SOURCE: Nauchno-tekhnicheskoye soveshchaniye po friktsionnomu iznosu rezin.

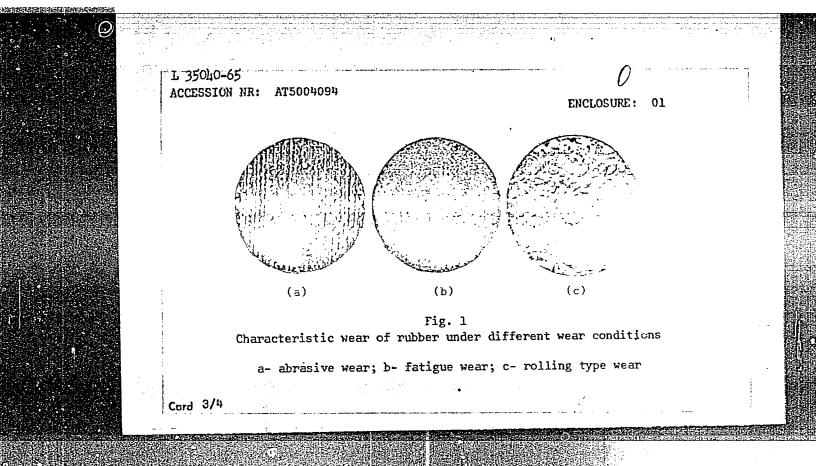
Moscow, 1961. Friktsionnyy iznos rezin (Frictional wear of reduced) statey. Moscow, Izd-vo Khimiya, 1964, 21-30

TOPIC TAGS: rubber, rubber research, wear resistance, rubber property

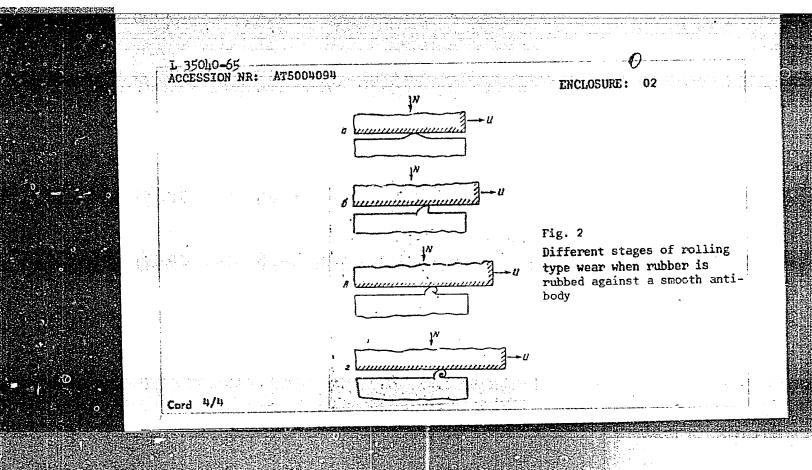
ABSTRACT: The wear mechanism in rubber is a complex process which depends on the combination of conditions which are characteristic of the operation at the point of friction. The basic problem in this study was separate consideration of the most characteristic mechanisms which correspond to the most important limiting conditions. Photomicrographs of three characteristic types of surface wear in rubber are given: abrasive wear, fatigue wear, and wear by rolling. The third cype of wear results from the destruction of the surface layer of rubber by multiple deformations of surface irregularities. This type of wear is characteristic of highly elastic materials and does not occur with solids. Orig. art. has: 5 figures, 2 tables and 3 formulas.

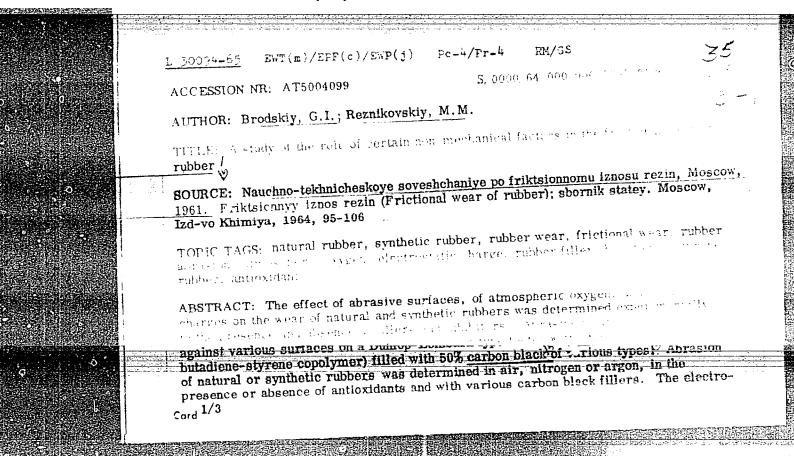
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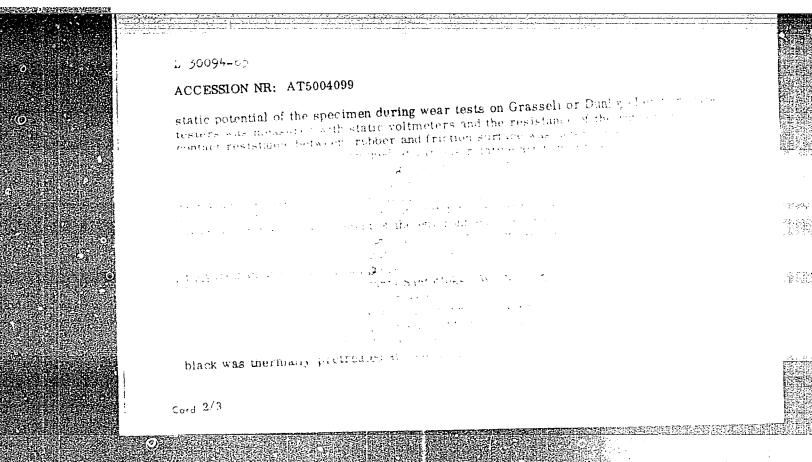
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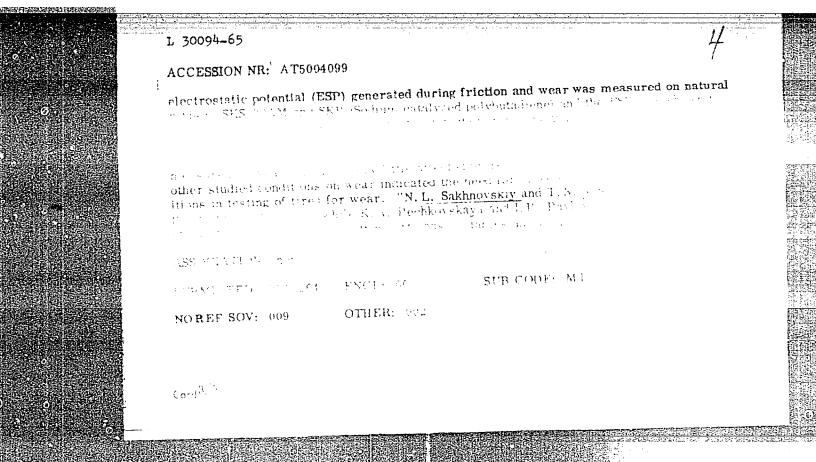


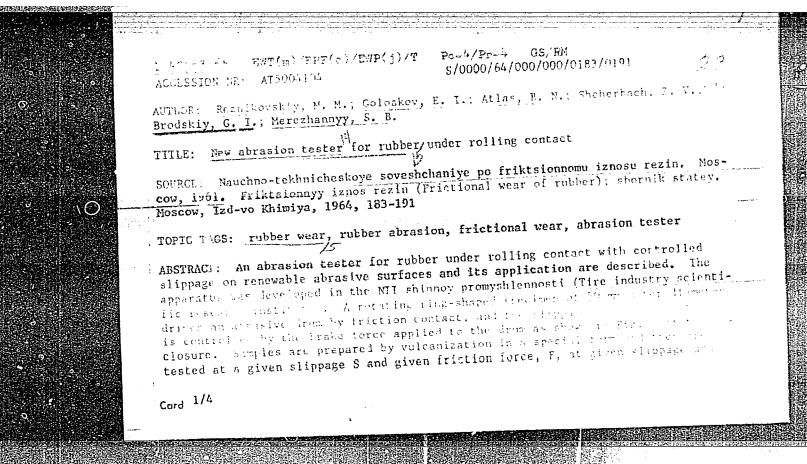
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L 40563-65

ACCESSION NR: AT5004104

given load N on the specimen, or at given friction force and given load. The testing procedure is described in detail. A formula is given for preparing a standard vulcanizate, used for testing the abrasive capacity of the renewable friction surface. Wear is calculated by presented equations from measured values as verticely ric loss or as the ratio of volumetric loss to the work (kilowatt-hr.) required to push on the work of the vertical rich capacity.

ASSOCIATION: None

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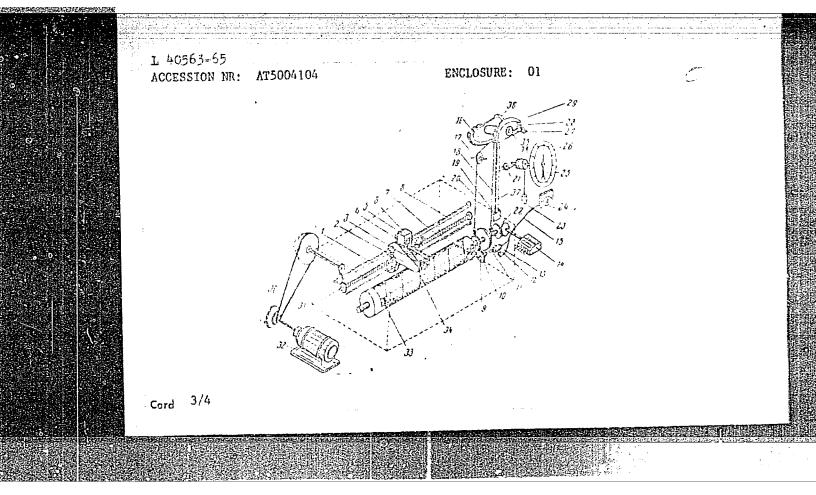
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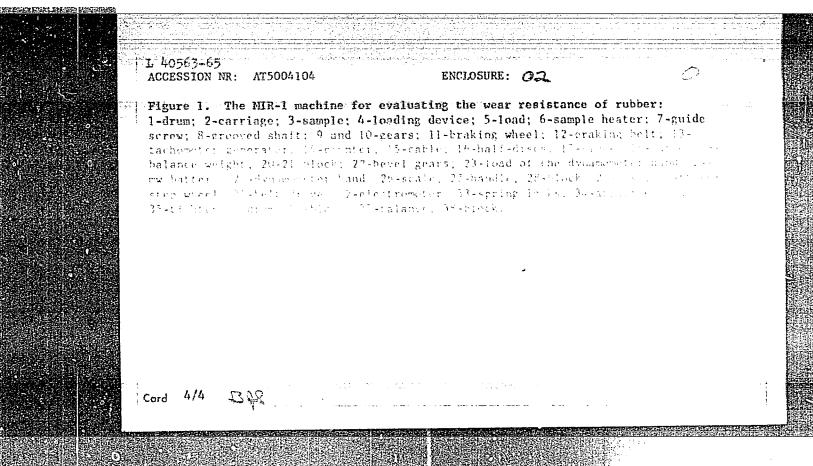
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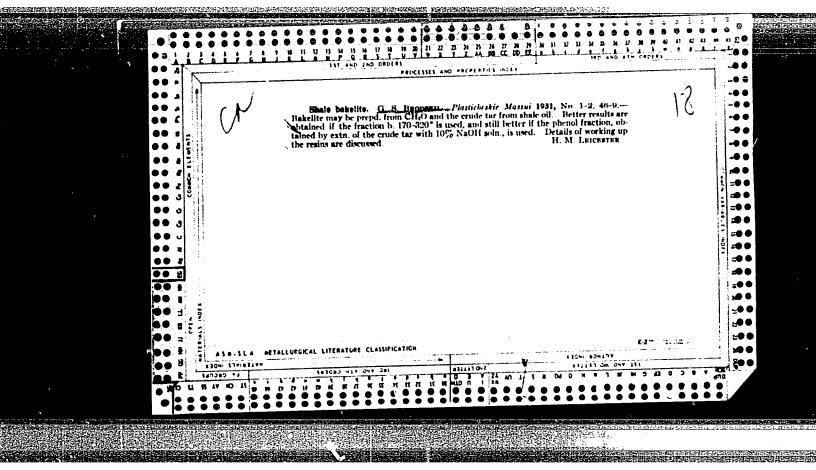
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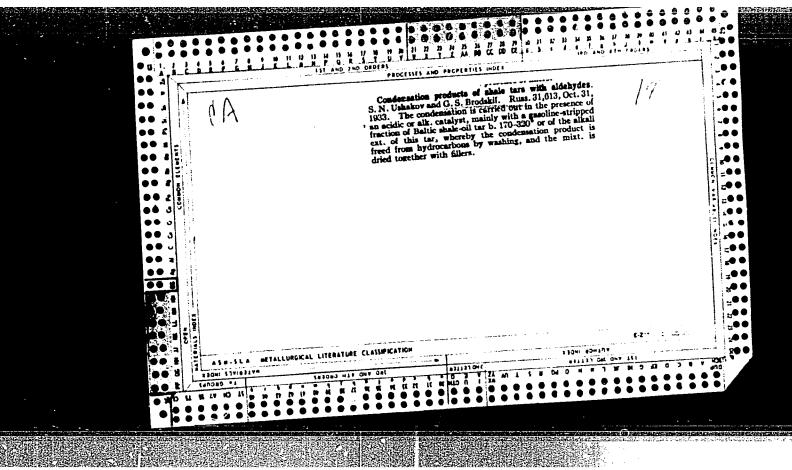
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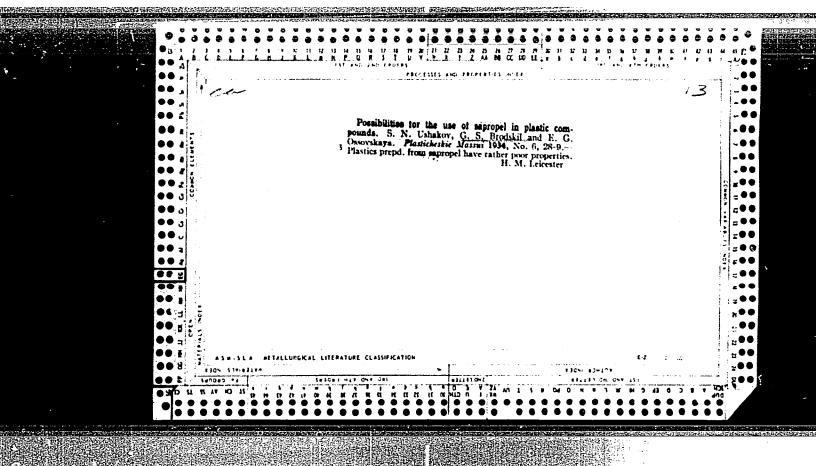
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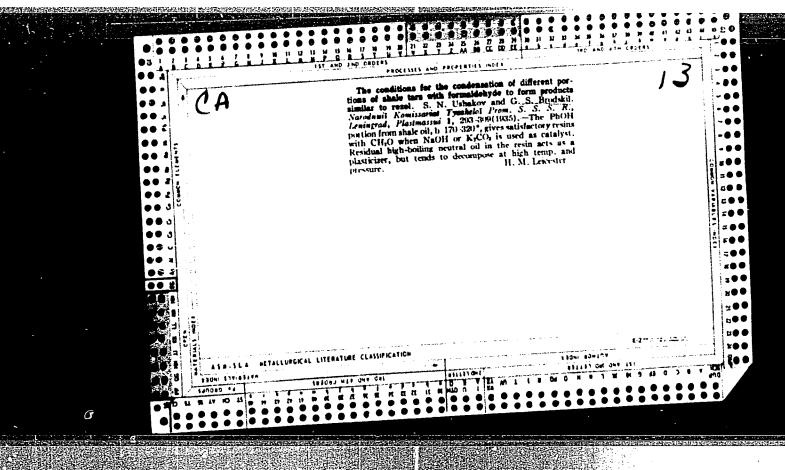


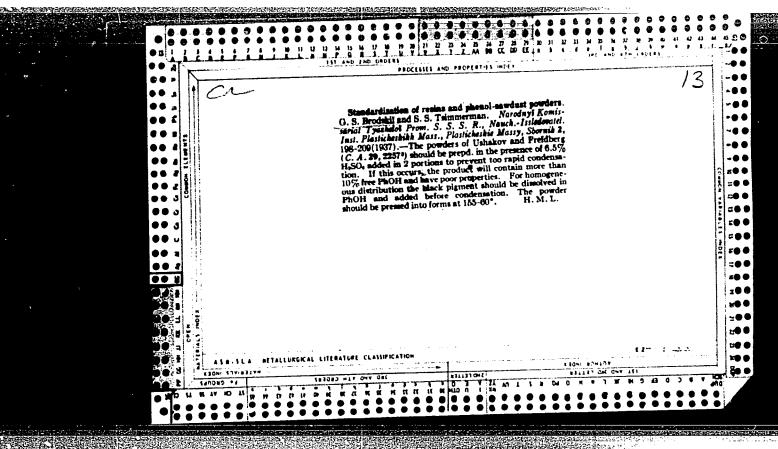


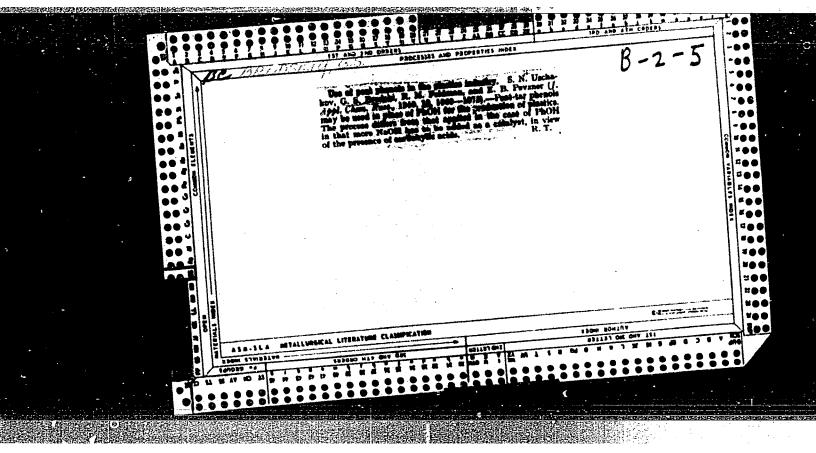


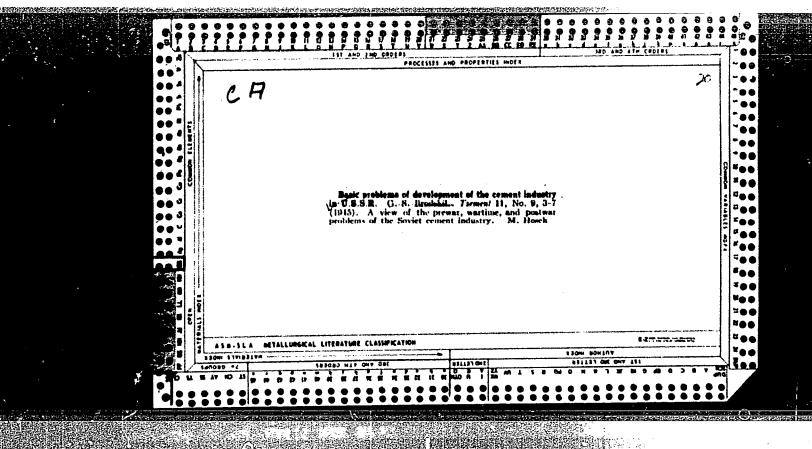


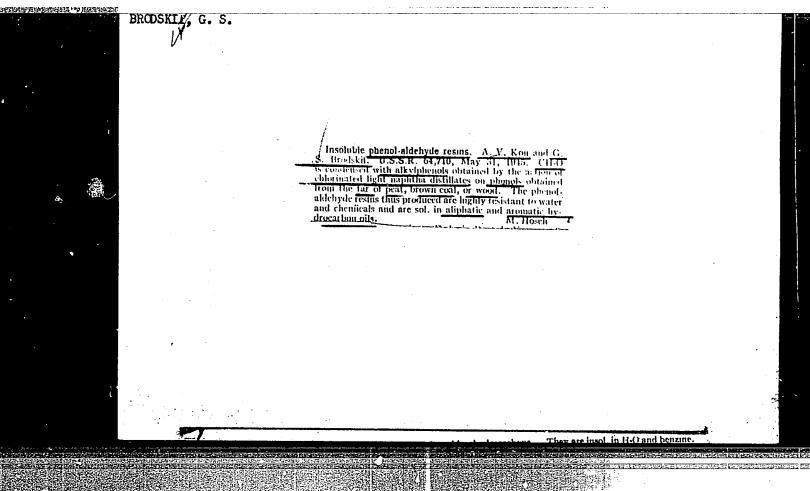








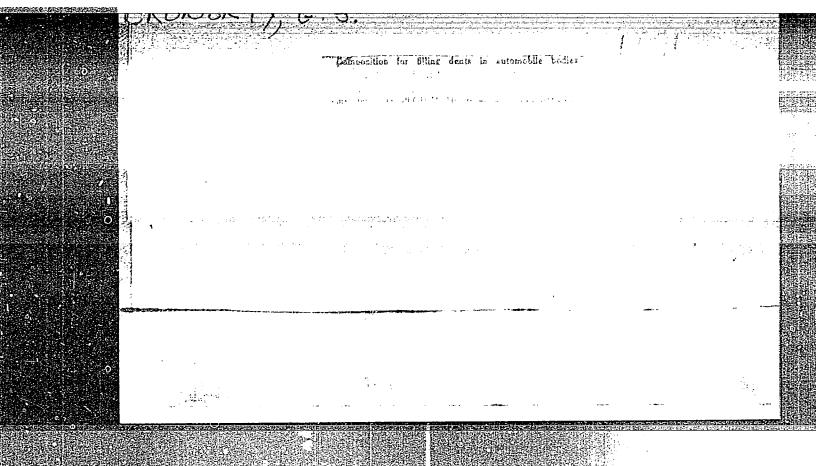




BRODSKIY, G. S.

a paper on chemically-resistant plastics and their prospects

Presented at a conference convened by Glavkauchuk and the Leningrad section of VNITO, (VNITO Rezinshchikov). Leningrad, Goskhimizdat, 1955, pp. 143. full abstract filed under LABUTIN, A. L.



BRODSKIY, G. S., Cand Tech Sci -- (diss) "Study of thermoreactive phenol-formaldehyde-polyvinyl-butyral resins and their technical application." Mos, 1957. 16 19 sheets (Min of Higher Education USSR, Order of Lenin Mos Chem-Technological Inst im D. I. Mendeleyev), 100 copies.

Printed by duplicating process (KL, 1-58, 117)

PETROV, G.S., prof.; BRODSKIY, G.S., inzh.

Substitutes for lead-tin solders used in the automobile industry.

Izobr. v SSSR 2 no.9:23,26 S '57. (MIRA 10:10)

(Solder and soldering)

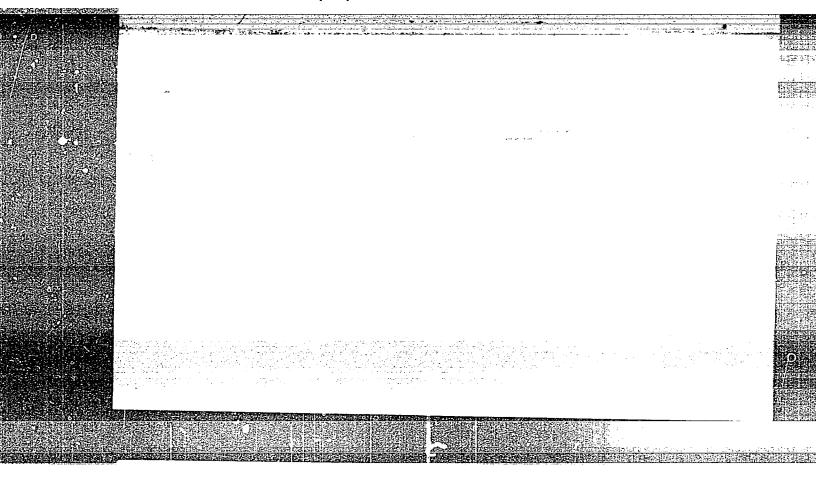
PETROV, G.S.; RABITS, S.M.; ERODESIY, G.S.

Highly durable materials for plastics based on rubber and formaldehyde-phenol resins. Izobr.v SSSR 2 no.10:11-12 0 '57.

(MIRA 10:11)

(Plastics industry) (Rubber, Synthetic) (Resins, Synthetic)

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010003-7



CIA-RDP86-00513R000307010003-7 "APPROVED FOR RELEASE: 08/22/2000

AULIORS:

Sokolova, A. A., Bogomolov, B. D., SOV/156 58-3-40/52

Krupkina, F. A., Brodskiy, G. S., Afanas'yeva, H. V.

TITLE:

Alkaline Lignin as Initial Substance for the Production of Plastics (Shchelochnoy lignin kak syr'ye dlya proizvodstva

plasticheskikh mass)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheshaya

tekhnologiya, 1958, Nr 3, pp. 556 - 558 (USSR)

ABSTRACT:

Alkaline lignin represents a valuable starting material for the production of plastics, since it contains reactive groups. The authors prepared samples and determined the technical data as well as the physical and chemical properties of products of alkaline lignin. The optimum method for the production of phenol-lignin formaldehyde resin was determined. Based on inves-

tigations on the physico-chemical and electric properties of the pressed samples the following optima mixture was worked out: phenol 100 parts, lignin 100 parts, formaldehyde 17 parts,

sulfuric acid 2 parts. By using this formula in the production of phenol lignin formaldehyde resins about 50% phenol and 40%

Card 1/2

formaldehyde can be saved. The stability of alkaline lignin in storing for 2 years was investigated and the results obtained

Alkaline Lignin as Initial Substance for the Production of Plastics

SOV/156-58-3-40/52

showed that the alkaline lignin is subjected to a change of its structure, with the formation of acid groups and an increase of the oxy groups. There are 2 tables and 2 references, which are Soviet.

ASSOCIATION:

Kafedra organicheskoy khimii i khimii drevesiny Arkhangel'skogo lesotekhnicheskogo instituta (Chair of Organic Chemistry and Cellulose Chemistry at the Arkhangel'sk Wood-Technical Institute)

SUBMITTED:

February 15, 1958

Card 2/2

BRODEKIY, G. 3

PHASE I BOOK EXPLOITATION

sov/4592

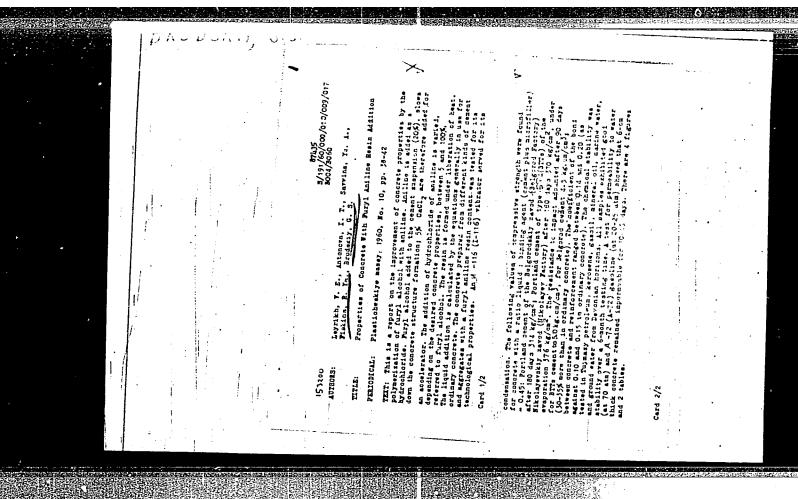
- Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut plasticheskikh mass
- Issledovaniya v oblasti termoreaktivnykh plastmass (Investigations in the Field of Thermosetting Plastics) Moscow, Goskhimizdat, 1959. 98 p. Errata slip inserted. 1,000 copies printed.
- Sponsoring Agencies: Gosudarstvennyy komitet Soveta Ministrov SSSR po khimil; Gosudarstvennyy nauchno-issledovatel'skiy institut plasticheskikh mass.
- Ed.: V. M. Yur'yev; Tech. Ed.: Ye. G. Shpak.
- PURPOSE: This book is intended for chemical engineers and technicians, and research chemists interested in thermosetting plastics.
- COVERAGE: The collection contains 11 articles which reflect some Soviet efforts and achievements in synthesizing plastics with special physicochemical properties, i.e., water-, acid-, heat-, and arc-resistance. No personalities are mentioned. References given are mainly Soviet and English, with several

Card 1/3

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000307010003-7"

Investigations in the Field of Thermosetting (Cont.) 80V/4592	
French and German and accompany the articles.	
TABLE OF CONTENTS:	
Petrov, G. S. (Deceased), F. A. Krupkina, G. S. Brodskiy, and M. N. Bragina. Molding Materials Based on Phenol-Furfural Resins	•
Petrov, G. S. (Deceased), S. M. Rabits, and G. S. Brodskiy. Phenol- Formaldehyde Resins Combined With Rubber and Molding Materials From This Combination	10
Pevzner, L. V. Water- and Acid-Resistant and Electric Insulating Phenolite and "Dekorrozit" [Similar to Phenolite] Plastics	15
Petrov, G. S. (Deceased), and R. Ya. Fiskina. Thermosetting Resins From Furyl Alcohol and Their Use in Industry	31
Izyumov, B. D., and I. P. Panfilova. Heat- and Arc-Resistant Organosilicon Molding Materials	45
Card 2/3 .	マノ



S/191/60/000/010/012/017 B004/B060

AUTHORS:

Rips, S. M., Brodskiy, G. S., Lavetskaya, A. I.

TITLE:

Cooling of Phenol Formaldehyde Resins by Spraying

PERIODICAL:

Plasticheskiye massy, 1960, No. 10, pp. 53-59

TEXT: The authors mention the rising production of phenol formaldehyde resins in the USSR, which brought about an enlargement of vacuum boilers from 1.5-2.0 to 5.5 m³. Boilers with a capacity of 10 m³ are already been planned for new plants. As compared therewith, the cooling process is lagging behind from the technical side. The following current methods of cooling the 100-130° hot novolak resin are mentioned. The resin is drained from the boiler into open vessels which are cooled by air or water. Cooling plates are used for the purpose. The hardened resin is manually removed from the vessels and is then ground. The cooling process takes 8-10 h; the manual treatment is noxious to health. The following previously suggested improvements are discussed: 1) The resin is passed through a screen, granulated in water, and conveyed to the mill by a conveyer band. 2) The resin flows onto a water-cooled disk and is

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Cooling of Phenol Formaldehyde Resins by Spraying

S/191/60/000/010/012/017 B004/B060

scratched off by means of a rotating knife. 3) The cooling vessels contain chains by means of which the hardened resin is lifted cut (method of the Sverdlovskiy zavod - Sverdlovsk Plant). 4) Method by V. S. Titov and B. A. Preobrazhenskiy: The resin flows toward the ascending air through a screen in a 4-5 m high pipe. 5) Chairs are passed through the collecting vessel. The resin solidified between the chain links is removed by the chain pinion. 6) Cooling on a metallic conveyer band passing through water. 7) The same on toothed rolls. 8) Blowing of resin into an air flow. In methods 1-7 grinding is always still required, while a too voluminous cotton is obtained with 8). The authors propose the following course (Fig. 13). The resin is pressed into an air-cooled tower by means of nozzles (air pressure 4-8 atm), drops onto a grinding ventilator and is separated as a fine powder in a dust catcher. Resin No. 18 was comminuted in this way. The molding powder obtained therefrom (by the method of the zavod "Karbolit" - "Karbolit" Plant) type K-18-2 (K-18-2) satisfied the requirements of FOCT (GOST) (measurements were made by L. D. Andrianova). The authors carried out a calculation of the technical data concerning this method and a comparison with cooling on rolls. 7 m3 of air per kg of resin were needed. The heat capacity in roll cooling amounts to

Card 2/4

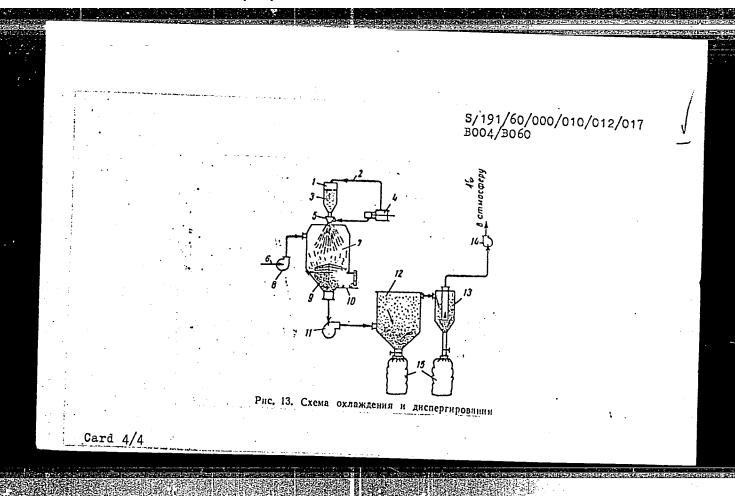
Cooling of Phenol Formaldehyde Resins by Spraying

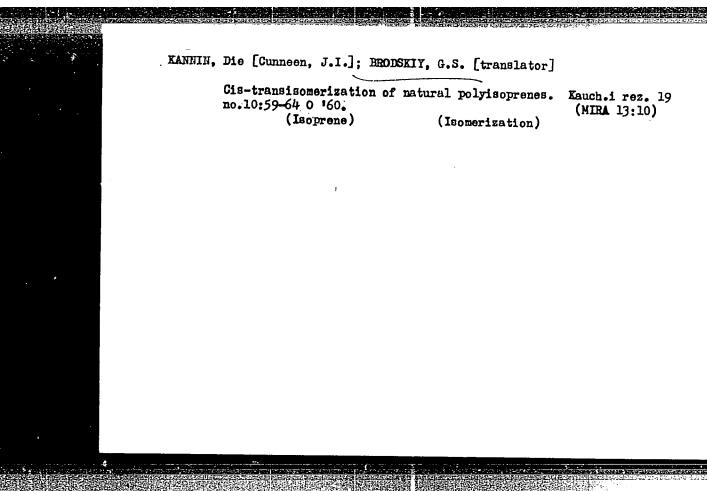
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42 kcal/m². C.h, and 180 kcal/m². C.h by the spraying process. The use of rotating disks instead of nozzles is said to be inadequate, because the spraying power is too low, and cannot be made to fit the production volume, which is possible by the operation of several nozzles. There are 16 figures, 1 table, and 5 Soviet references.

Legend to Fig. 13. 1 = melting vessel, 2 = compressed air, 3 = liquid resin, 4 = compressor, 5 = nozzle, 6 = air, 7 = spraying chamber, 8 = pressure fan, 9 = dispersion rotor, 10 = electric motor, 11 = exhaustor, 12 = dust exhaust chamber, 13 = cyclone, 14 = exhaustor, 15 = place of filling, 16 = exhaust

Card 3/4





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S/852/62/000/000/010/020 B136/B101

AUTHORS: Fiskina, R. Ya., Brodskiy, G. S.

TITLE:

New anticorrosive materials based on condensation products of

furyl alcohol

SOURCE:

Primeneniye polimerov v antikorrozionnoy tekhnike. Ed. by

I. Ya. Klinov and P. G. Udyma. Moscow, Mashgiz, 1962. Vses.

sovet nauchno-tekhn. obshchestv., 75-87

TEXT: A large number of furyl and furyl phenol formaldehyde resins, either pure or modified with polyvinyl acetal, resin, epoxy resin, or other resins, were synthesized from furyl alcohol obtained by hydrogenation of furfurol. The furyl resin ΦJ -2 (FL-2) is soluble in alcohol-acetone mixtures but insoluble in gasoline and kerosene. The time of gelatinization is 47'20" at 160° C, and 52" at 300° C, where the resin passes over into a resite-like state. Water containing levulinic acid and traces of formaldehyde is liberated during polycondensation. The content of hydroxyl groups drops with decreasing content of free furyl alcohol. This proves that OH groups react with hydrogen at the alpha position in the first stage and that Card 1/3

New anticorrosive materials based on ... \$\ \frac{\$52/62/000/000/010/020}{B136/B101}\$

polymerization occurs at the double bonds in the second stage. FL-2 solidifies at 18 - 20°C in the presence of acid catalysts such as naphthalene sulfonic acid, Petrov's contact, p-toluene sulfonic acid, p-toluene sulfochloride, aniline hydrochloride, etc. At 150 - 160°C solidification is accelerated in the presence of boric acid, maleic acid, and other acids. FL-2 displays good impregnating properties, strong adhesion to various materials, high heat resistance, and stability against acids and lyes. A resin with a gelatinization rate of 20 - 90" at 140 - 150 $^{\rm o}$ C was synthesized from furyl alcohol and from a water-soluble phenol formaldehyde resin containing many methylol groups (phenol alcohols). At 80°C, the resin becomes a very mobile liquid which polymerizes rapidly. Solidification sets in even at 140 - 150°C. The resin, which was designated M(FL), displays good adhesion to metals, plastics, concrete, glass, wood, cement, etc. The furyl phenol formaldehyde resin \$\overline{\Phi}\$-8 (F-8) was obtained similarly. A special furyl aniline resin makes it possible to obtain concretes that are impervious to water, gas, and gasoline; the resin may Card 2/3

New anticorrosive materials based on ...

S/852/62/000/000/010/020 B136/B101

also form inside the concrete. Other cements mentioned are ϕJ_1 -1 (FL-1) and ϕJ_2 -4 (FL-4) filled with graphite; ϕJ_1 -10(F-10) and ϕJ_2 -9 (F-9) which are furyl phenol formaldehyde resins modified with polyvinyl acetal; ϕJ_1 -7 (F-7T) which is made from furyl phenol formaldehyde resins combined with polyvinyl acetal in a mixture of alcohol and ethyl acetate; and ϕJ_1 -4C(FL-4S) which is a furyl phenol formaldehyde acetal resin combined with epoxy resin. The best anticorrosive properties are obtained by using hot-cured cement based on these furyl resins with graphite, microasbestos, and other fillers. The newly developed resins are stable against acids and lyes but unstable in an oxidizing atmosphere. There are 2 figures and 2 tables.

Card 3/3

UMRIKHINA, Ye.N.; BLAZHEVICH, V.A.; STAL'NOVA, M.A.; RAYEVSKAYA, V.I.; BRODSKIY, G.S.; RABINOVICH, A.B.

Use of plastics in the sealing off of the flow of stratial waters in oil wells. Plast. massy no.8:36-40 '64.

(MIRA 17:12)

	L 2937-66 EWT(m)/EPF(c)/EWP(j)/T/ETC(m) WW/RM ACCESSION NR: AP5024395 AUTHOR: Brodskiy, G. Sh.; Krol', M. L. S.; Krupkina, F. A.; Serapegina, O. A. TITLE: Preparation of porous material. Class 39, No. 173401 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 79-80 TOPIC TAGS: foam plastic, resin, polyethylene, phonolformaldehyde ABSTRACT: An Author Certificate has been issued for a preparative method for a water—and heat-resistant foamed plastic/based on a formulation involving a phenolformaldehyde resin (nonmodified or modified by furfural-acetone resin) and poly-				
	ASSOCIATION: Nauchno-issledov Institute of Plastics) SUBMITTED: 14Aug63 NO RER SOV: 000 Card 1/1	ENCL: 00 OTHER: 000	SUB CODE: MT ATD PRESS: HOS		

BRODSKIY, G.V

Morphological changes in congenital listeriosis. Akush.i gin. no.4:103:-105 '61. (MIRA 15:5)

1. Iz laboratorii **no**rmal'noy i patologicheskoy morfologii (zav. - prof. B.V. Kulyabko) Instituta akusherstva i gine-kologii (dir. - chlen-korrespondent AMN SSSR - prof. P.A. Beloshapko [deceased]) AMN SSSR (MONONUCLEOSIS) (INFANTS (NEWBORN)--DISEASES)

BESKROVNAYA, N.I.; BRODSKIY, G.V.

Case of malignant degeneration of a paraovarian cyst. Akush. i gin. 39 no.5:151-152 S-0 '63. (MIRA 17:8)

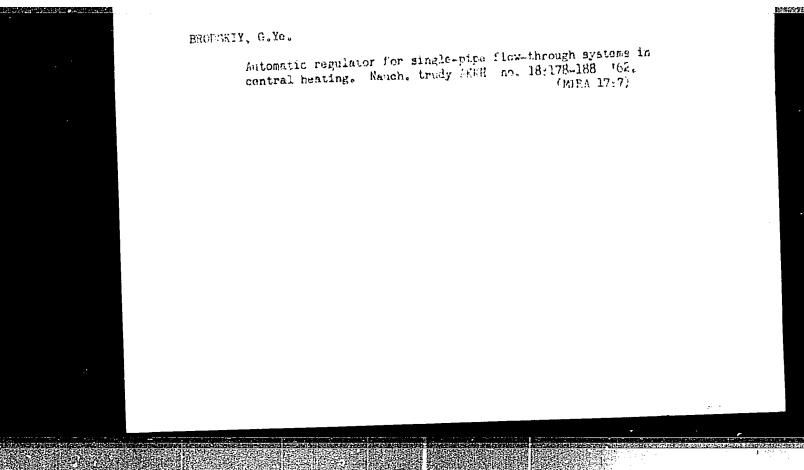
1. Iz otdeleniya operativnoy ginekologii (zav. - prof. M.V. Dubnov) i laboratorii normal'noy i patologicheskoy morfologii (zav. - prof. B.V. Kulyabko) Instituta akusherstva i ginekologii (dir. - prof. M.A. Petrov-Maslakov) AMN SSSR.

BRODSKIY, G.V.; YEGOROVA, A.P.

Effect of Listeria infection on the outcome of pregnancy and on the fetus in infected rabbits in various stages of pregnancy. Akush. i gin. 40 no.2:18-24 Mr-Ap *64.

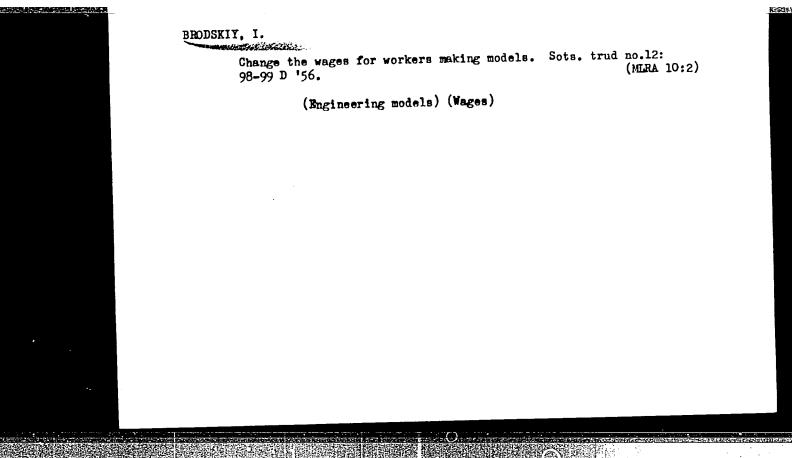
(MIRA 17:11)

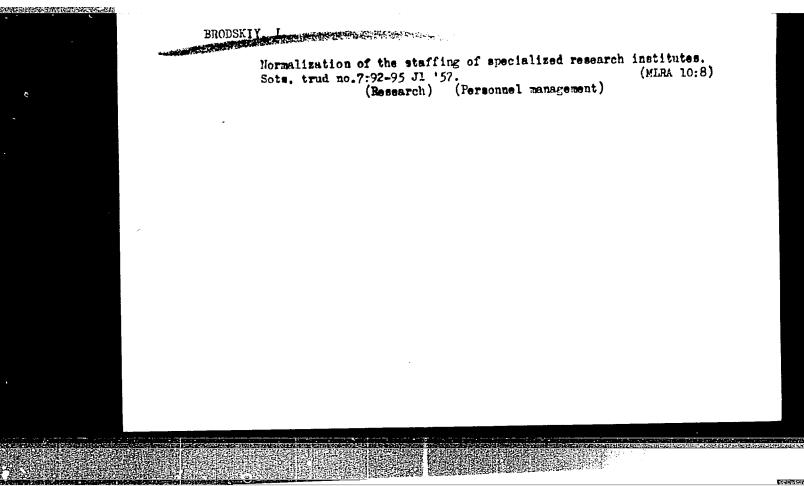
1. Bakteriologicheskaya laboratoriya (zav. A.P. Yegorova) i laboratoriya normal'noy i patologicheskoy morfologii (zav. - prof. B.V. Kulyabko) Instituta akusherstva i ginekologii (dir. - prof. M.A. Petrov-Maslakov) AMN SSSR, Leningrad.



- 1. BRODSKIY, I.
- 2. USSR (600)
- 4. Electric Current Converters.
- 7. Wiring diagram for a vibro-converter in an intensified KRU-2 radio network on a collective farms. Radio no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.





ACC NR. ANGO2(634

INVENTOR: Chvorinov, N. (Engineer); Serha, L. (Engineer); Brodsky, I. (Engineer)

ORG: none

TITLE: Shapes for steel or alloy steel casting through the bottom. Class 31c,
No FV 4567-65

SOURCE: Hutnicke listy, no. 4, 1966, 294

TOPIC TAGS: metal casting, metal surface, steel

ABSTRACT: The article is a summary of Czechoslovak Patent Application Class 31c,
14, FV 4567-65, dated 17 July 65. The basis of the invention is the fact that the
14, FV 4567-65, dated 17 July 65. The basis of the invention is the fact that the
part of the form which contacts the molten metal is hollow. Slag ferring powder is
added directly in the casting shapes; the process provides ingots with improved

SUB CODE: 13 / SUBM DATE: none

Cord 1/1 ULR

s/133/61/000/007/002/017 A054/A129

AUTHORS: Shmrga, Lyubomir, Brodskiy, Ivo, Engineers

TITLE: The application of exothermic mixtures and inserts in heating ingots

PERIODICAL: Stal', no. 7, 1961, 598 - 604

TEXT: In the Vitkovitskiy Metallurgical Plants (Ostrava, Abstracter's note; Czechoslovakia) exothermic mixtures were applied in heating ingots, in view of the possibility of controlling their chemical reactions, utilizing their heating capacity and preventing their effect on the chemical composition of the metal. The calculations of the economic effect of various exothermic mixes gave the following

results:	Ferro-alloy mix	Thermic mix	Exothermic mix
Amount of head crop	8.0	5.3	5•3
Spec. consumption of the mix, kg/t	0.9	10.0	3.0

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S/133/61/000/007/002/017 A054/A129

The application of exothermic mixtures and ...

Cost of the mix 4.05 19.40 13.90 Czech. crown/t

Saving in rolled product, crown/t 9.50 17.15 22.65

The most efficient use of exothermic substances is applying them in the form of inserts (whereby the head crop is reduced from 8 to 5%). In order to prevent the formation of shrinkage cavities, the metal of the ingot head must be kept liquid by heating until the ingot solidifies. In 650 kg ingots (with 250 mm sides) this takes 16 1/2 minutes, in 3,850 kg ingots (with 580 mm sides) about 88 1/2 minutes. The exothermic inserts known hitherto - which burn much too short a time - are not suitable for heating 3,850 kg ingots; their service life is also short. A new composition was developed for this purpose, containing 20% aluminum sleet, 50% coxidizing agents, (nitrates, bases and ferro-oxides), calcined chamotte and slag, oxidizing agents, to provide heat-insulating properties and to delay reacto make the mix porcus, to provide heat-insulating properties and to delay reactomake the mix porcus, to provide heat-insulating properties and to delay reactomake the mix porcus, the metal solidifies more quickly in the ingot head. In content of the mixtures, the metal solidifies more quickly in the ingot head. In order to increase the effect of the exothermic mix, the dozzle should be lined with

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S/133/61/000/007/002/017 A054/A129

The application of exothermic mixtures and...

a heat-insulating material, for instance with foam-chamotte. The gap between the exothermic mix and the heat-insulating layer should be filled with a porous substance permitting the gases to penetrate which are produced during the burning of the insert. To ensure an efficient and rapid heating of the steel surface from above, the following methods were tested: the dozzles of three ingots were provided with exothermic packing (at the sides), while, moreover, two packs containing ferro-silicon + sodium nitrate, each weighing 4 kg, were added on the surface in one ingot. In the dozzle of the second in besides the afore-mentioned chemicals 4 kg exothermic bricks were laid on the surface, with the same composition as the packing, only the ore-content was lower and in the third dozzle only exothermic bricks (5 kg) of the same composition as the packing were added. In order to prevent the carbonization of the metal by the insulating mix, the ingot surface has to be coated by sand. In the first ingot the head decreased by 1.5%, in the second by about 3%. Due to the application of ferrosilicon-containing mixes, however, the metal was enriched by C and Si on the head surface, and during shrinkage these C- and Si-enriched parts sank down in the middle of the ingot. Better results were obtained in the second ingot with a smaller amount of C and Si in the central parts. The third ingot, to which only a 5-kg pack of briquettes was added on the dozzle surface, displayed deep shrinkage cavities. Based on the tests it can be establish-

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The application of exothermic mixtures and...

ed that it is useful to combine the heating of the ingot head from the sides with heating from the surface. In that case a head of 4% can be obtained and no chemical change takes place in the metal. An exothermic mix consisting of 50% aluminum sleet, 35% sodium nitrate, 10% manganese peroxide and 5% calcium silicate was found to be very efficient. Exothermic heating from the sides and from above is most effective for medium-sized ingots. The exothermic heating can also be carried out using the mix in the form of bricks. The bricks suggested by the authors can be used either as a frameless dozzle or for lining the dozzle. These bricks may contain either 1) exothermic and insulating substances, reacting without explosive effects or 2) efficient exothermic additives or 3) an insulating and an exothermic layer (bricks in 2 or more layers). For all three types of bricks resins are used as binding material. The bricks can be produced by the cold, hot or combined methods. In the cold method good results are obtained when phenol-sulfonic, phosphoric and sulfuric acids are added. The refractory mix (of calcined chamotte) containing 5% resin and 0.8% phenol-sulfonic acid had a strength of 280 kg/cm2. When the hot method is applied the resin-containing mix solidifies already during the pressing. In the combined method, which is the most productive, the solidification of the resint containing mix is accelerated by additional drying at 300°C. After a 10-minute

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S/133/61/000/007/002/017 A054/A129

The application of exothermic mixtures and...

drying period the mix, containing 3.5% binding agent has a strength of 500 kg/cm². The consumption of exothermic substances in bricks is lower than when it is rammed into the ingot head. The exothermic bricks moreover can be produced outside the plant, they can be stored for an indefinite time and are easy to transport. The use of exothermic heating also produced a large saving. Based on a consumption of 9.1 kg/t packing (rammed), 1.82 kg/t exothermic mix and 2.7 kg/t aluminum, the price of the most expensive steels can be cut by 320 [Czechoslovakian] crowns, counting 300 crowns for the manual production of insert collars from perforated sheet.

There are 8 figures and 9 references: 5 Soviet-bloc, 4 non-Soviet-bloc.

Card 5/5

BKODZKIJ IT WI AGALINA, M.S., inzh.; AKUTIN, T.K., inzh.; APRESOV, A.M., inzh.; ARISTOV, S.S., kand. wkhn. nauk,; BELOSTOTSKIY, O.B., inzh.; BERLIN, A.Ye,,inzh.; BESSKIY, K.A., inzh.; BLYUM, A.M., inzh.; BRAUN, I.V., inzh.; BRODSKIY, I.A., inzh.; BURAKAS, A.I., inzh.; VAYNMAN, I.Z., inzh.; VARSHAVSKIY, I.W., inzh.; VASIL'YEVA, A.A., inzh.; VORONIN, S.A., inzh.; VOYTSEKHOVSKIY, L.K., inzh.; VRUBLEVSKIY, A.A., inzh.; GERSHMAN, S.G., inzh.; GOLUBYATNIKOV, G.A., inzh.; GOHLIN, M.Yn., inzh.; GRAMMATIKOV, A.N., inzh.; DASHEVSKIY, A.P., inzh.; DIDKOVSKIY, I.L., inzh.; DOBROVOL'SKIY, N.L., inzh.; DROZDOV, P.F., kand. tekhn. muk,; KOZLOVSKIY, A.A., inzh.; KIRILENKO, V.G., inzh.; KOPELYANSKIY, G.D., kand. tekhn. nauk,; KORETSKIY, M.M., inzh.; KUKHARCHUK, I.N., inzh.; KUCHER, M.G., inzh.; MERZLYAK, M.V., inzh.; MIRONOV, V.V., inzh.; NOVITSKIY, G.V., inzh.; PADUN, N.M., inzh.; PANKRAT YEV, N.B., inzh.; PARKHOMENKO, V.I., kand. biol. nauk,; PINSKIY, Ye.A., inzh.; POLEUBNYY, S.A., inzh.; PORAZHENKO, F.F., inzh.; PUZANOV. I.G., inzh.; REDIN, I.P. inzh.; HEZNIK, I.S., kand. tekhn. nauk,; ROGOVSKIY, L.V., inzh.; RUDERMAN, A.G., inzh.; RYBAL'SKIY, V.I., inzh.; SADOVNIKOV, I.S., ingh.; SEVER YANOV, N.N., kand. tekhn. nauk.; SEMESHKO. A.T., inzh.; SIMKIN, A.Kh., inzh.: SURDUTOVICH, I.N., inzh.; TROFIMOV, V.I., inzh.; FEFER, M.M., inzh.; FIALKOVSKIY, A.M., inzh.; FRISHMAN, M.S., inzh.; CHERESHNEV, V.A., inzh.; SHESTOV, B.S., inzh.; SHIFMAN, M.I., inzh.; SHUMYATSKIY, A.F., inzh.; SHCHERBAKOV, V.I., inzh.; STANCHENKO, I.K., otv. red.: LISHIN, G.L., inzh., red.: KRAVTSOV, Ye.P., ingh., red.; GRIGOR'YEV, G.V., red.; KAMINSKIY, D.N., red.; KRASOVSKIY, I.P., red.; LEYTMAN, L.Z., red.[deceased],; GUREVICH, M.S., inzh., red.; DANILEVSKIY, A.S., inzh., red.; DEMIN, A.M., inzh., red.; KAGANOV, S.I., inzh., red.; KAUFMAN, B.N., kand. tekhn. nauk, red: LISTOPADOV, N.P., inzh., red.; MENDELEVICH, I.R., inzh., red.[deceased]; on next card) continued

AGALINA, M.S... (continued) Card 2.

PENTKOVSKIY, N.I., inzh., red.; ROZENBERG, B.M., inzh., red.; SLAVIN,
D.S., inzh., red.; FEDOROV, M.P., inzh., red.; TSYMBAL, A.V., inzh., red.;
SMIRNOV, L.V., red. izd-va.; PROZOROVSKAYA, V.L., tekhn. red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskii
spravochnik. Moskva, Gos. nauchne-tekhn. izd-vo lit-ry po ugol'noi
spravochnik. Moskva, Gos. nauchne-tekhn. izd-vo lit-ry po ugol'noi
spravochnik. Vol. 3.[Organization of planning; Construction of surface
promyshl. Vol. 3.[Organization of planning; Construction of surface
buildings and structures] Organizatsiia proektirovaniia; Stroitel'stvo
buildings and structures (Mining engineering)
(Mining engineering)

GORODNICHEV, Vasiliy Mikhaylovich; BRODSKIY, I.A., otv.red.; ZVORYKINA, L.N., red.izd-va; SHKLYAR, S. Ta., tekha.red.

[Modern methods of controlling the swelling of rocks] Sovremennye metody bor'by a pucheniem gornykh porod. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 99 p.

(MIRA 13:7)

(Mining geology) (Earth movements)

SHIRAY, Yevgeniy Nikolayevich; TRUPAK, N.G., doktor tekhn. nauk, prof., retsenzent; BRODSKIY, I.A., otv. red.; PETRAKOVA, Ye.P., red. izd-va; LOMILINA, L.N., tekhn. red.; MINSKER, L.I., tekhn. red.

[Vibration method of shaft sinking in shifting sands] Vibrometod pri prokhodke stvolov shakht v plyvunakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 99 p. (MIRA 14:11) (Shaft sinking)

KAPUSTIN, Nikolay Georgiyevich; KVON, Sergey Syn-Guvich; BERLIN,
A.Ye., inzh., retsenzent; KOVSH, B.I., inzh.,
retsenzent; BRODSKIY, I.A., inzh, retsenzent; CHECHKOV,
L.V., ved. red.; BIRYUKOV, R.A., prof., otv. red.

[Principles of designing coal mines] Osnovy proektirovaniia ugol'nykh shakht. Moskva, Nedra, 1964. 267 p. (MIRA 18:2)

1. Vsesovuznyy tsentral'nyy gosudarstvennyy institut po proyektirovaniyu i tekhniko-ekonomicheskim obosnovaniyam razvitiya ugol'noy promyshlennosti (for Berlin, Kovsh, Brodskiy).

(Pipe mills)

BRODSKIY, I.I. insh.; GNILENKO, B.A.; KRYUKOV, G.Ya.; MARSHAK, V.I.; KHODAK, I.Z. Modernization of a continuous pipe-rolling mill. Mekh.i avtom. proisv. 14 no.1:24-26 Ja '60. (MIRA 13:5) proisv. 14 no.1:24-26 Ja 160.

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HERDYANSKIY, M.C., inzh.; HODSKIY, I.I., inzh.; KRYUKOV, G.Ya., inzh.; SLYUSAREV, A.N., inzh.

Autcmatic marking of hot pipes. Hekh.i avtom.proizv. 15 no.11:
15-18 N '61.

(MIRA 14:11)

(Marking devices)

(Automatic control)

8/130/60/000/011/009/011 A006/A001

AUTHORS:

Berdyanskiy, M. G., Brodskiy, I. I., Voynov, V. P., Gnilenko, B. A.,

Grinval'd, V. A., Kryukov, G. Ya.

Mechanization and Automation of a Core-Extractor of a Continuous TITLE:

Pipe Rolling Mill

Metallurg, 1960, No. 11, pp. 30-33 PERIODICAL:

Information is given on the mechanized and automated operation of a TEXT: core-extractor of a continuous pipe-rolling mill including the following components: a rest (Fig. 2); an automatic trolley (Fig. 3); a core-dropping machine (Fig. 4) a pipe-extractor (Fig. 5) and a pipe-dropping machine (Fig. 6). The pipes with the cores are supplied to the rest whose jaws retain the pipes during the extraction of the cores. The opening of the jaws allows the passage of the cores only. The jaws are exchangeable depending on the diameter of the core. One or two cores may be extracted. The simultaneous extraction of two cores is performed with the aid of the automatic trolley. Two tongs with jaws are opened when contacting the cores allowing the passage of the core heads which fall upon the pawl tail and disconnect it from the protuberance on the traction hook nob.

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S/130/60/000/011/009/011 A006/A001

Mechanization and Automation of a Core-Extractor of a Continuous Pipe Rolling Mill

A spring puts the lever underneath the pawl to prevent its clutching with the aforementioned protuberance during extraction. Under the effect of its proper weight the hook is switched on. The tongs, brought together by a spring, clamp the core head and extraction is started. After completed extraction the tongs are opened and the core released. The trolley moves back to the rest. The cores are removed and rolled down into a cooling bath. After removal of the mandrels, the pipes are extracted from the rest and dropped into a housing. The information includes the detailed description of the automatic control system.

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8/130/60/000/011/009/011 A006/A001 Mechanization and Automation of a Core-Extractor of a Continuous Pipe Rolling

Figure 2. Rest

Mill

1 - jaws; 2 - counterweight; 3 - cams; 4 - shafts.

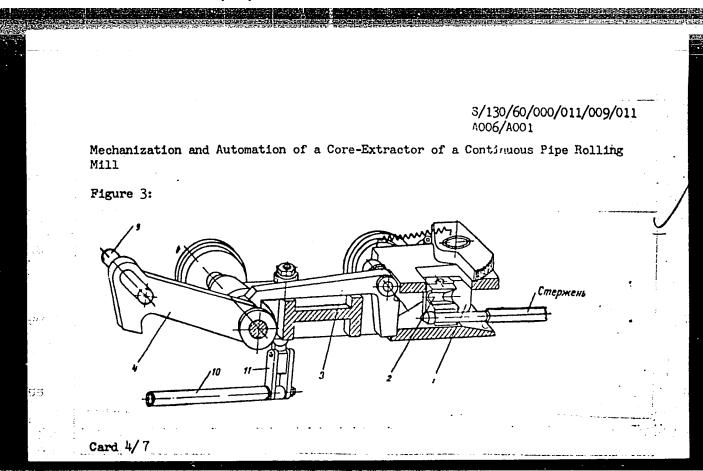
Figure 3. Automatic trolley 1 - tongs; 2 - Jaws; 3 - pawl; 4 - tr traction hook; 5 - lever; 6 - springs; 7 - roller; 8 - roller of the dented section; 9 - rod; 10 - stem; 11 hinge.

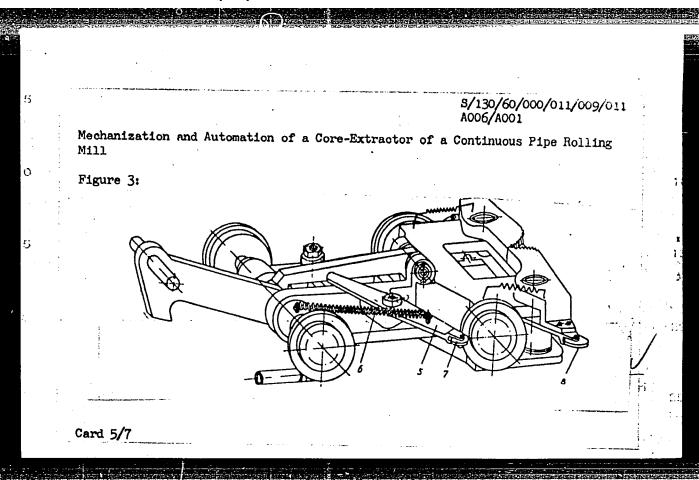
Figure 4. Core dropping device 1 - pneumatic cylinder; 2 - vertical cylinder; 3 and 5 - levers; h - stem.

Figure 5. Machine to extract the pipes from the rest

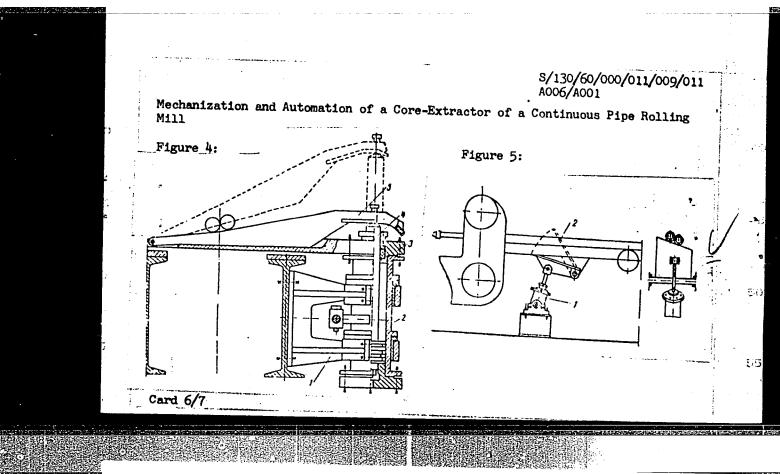
1 - pneumatic cylinder; 2 - flag.

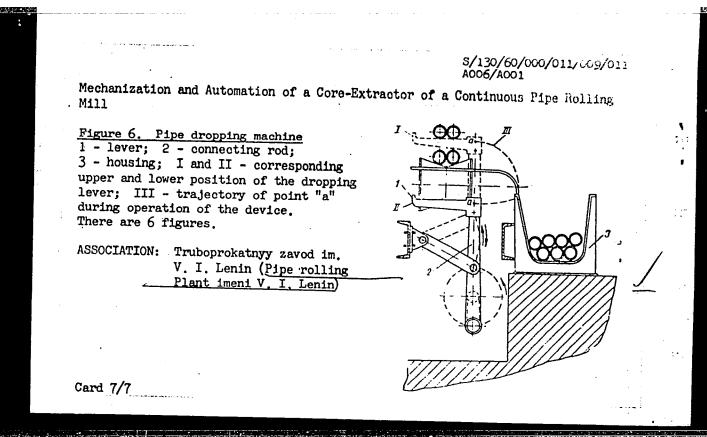
Card 3/7





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3/133/62/000/001/007/010 A054/A127

Berdyanskiy, M. G., Brodskiy, I. I., Burakovskiy, V. N., Grinval'd, V. A., Dol'nik, T. I., Sidorenko, V. M., Engineers AUTHORS:

Friction-type tube pushing and turning device on the automatic tube TITLE:

rolling mill

PERIODICAL: Stal', no. 1, 1962, 60 - 61

To replace the cranky pneumatic drive of the "140" automatic tube TEXT: rolling mill of the zavod im. Lenina (Plant im. Lenin) by a member more suitable for the automatic process, a new pushing and turning device has been developed at the Tsentral'naya laboratoriya automatizatsii i mekhanizatsii Dnepropetrovskogo sovnarkhoza (Central Laboratory of Automation and Mechanization of the Dnepropetrovsk Sovnarkhoz) in cooperation with V. F. Veyevnik, Engineer, L. F. Kandyba. Engineer, I. P. Ivanov, Engineer, Ye. B. Byutner, Engineer, L. I. Vitnov, Technician. The new device, which consists of friction rollers, is mounted on the front table of the mill, at 4,850 mm distance from the roll axis. The mechanism pushes the tube onto the stand and turns it through 90° before the second pass. The pusher is controlled from the mill switchboard. The friction rollers are in

Card 1/2

Friction-type tube pushing and...

S/133/62/000/001/007/010 A054/A127

constant rotation and the distance between them is regulated by the operator via an electro-pneumatic distributor. The head part of the tube is gripped by the friction rollers when it slides down on the inclined frame and is pushed by them into the stand. The rolls then return into their initial position. When the first pass has been completed, the reversing rollers move the tube on to the front table. This time the friction rollers grip the tube, lift it and turn it over, at the same time feeding it into the stand. The new device cuts down the feed time of tube blanks (105 mm in diameter and 900 - 1,050 mm long) from 1.1 to 0.67 sec, while turning over and pushing in the tube for the second pass takes 0.9 sec. The rolling cycle was cut by 1.33 sec with the friction type feeding device. Differences in wall-thickness (longitudinal and across) of the tubes could also be eliminated, because the new pusher ensures an accurate positioning in vertical direction of the tube edge before the second pass. The mill output has increased by 5%. There are 2 figures.

Card 2/2

VATKIN, Ya. L., kand. tekhn. nauk; BERDYANSKIY, M. G., inzh.;
BRODSKIY, I. I., inzh.; DRUYAN, V. M., inzh.; KOLPOVSKIY, H. M.,
inzh.; KAGARLITSKIY, A. S., inzh.; LUDENSKIY, A. M., inzh.

Fixed mandrels on automatic mills. Nauch. trudy. DMI no.48: 174-185 '62. (MIRA 15:10)

(Pipe mills)

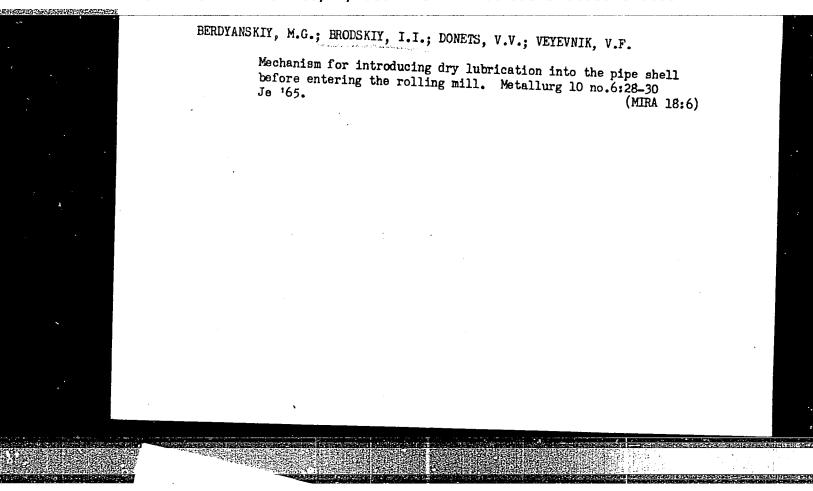
BERDYANSKIY, M.G.; CHUS, V.G.; BRODSKIY, I.I.; VEYEVNIK, V.F.; VITNOV, L.I.; GRINVAL'D, V.A.; TOLDAYEV, A.S.

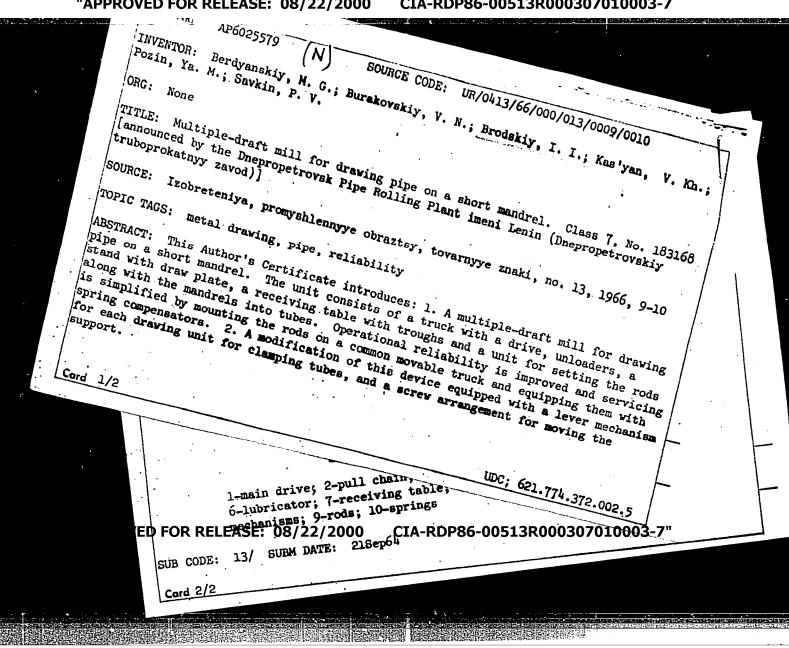
Automatic machine for screwing unions. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 17 no.12:27-29 D '64. (MIRA 18:3)

VATKIN, Ya.L., doktor tekhn. nauk; BERDYANSKIY, M.G., inzh.; BRODSKIY, I.I., inzh.; DOL'NIK, T.I., inzh.; KOSTYUCHENKO, Y.I., inzh.; TOLDAYEV, A.S. inzh.

Regulator of the longitudinal wall thickness variation in pipe. Stal' 24 no.9:832-833 S '64. (MIRA 17:10)

l. Dnepropetrovskiy metallurgicheskiy institut i TSentral'haya laboratoriya avtomatizatsii i mekhanizatsii Pridneprovskogo soveta narodnogo khozyaystva.





BRODSKIY, I.L.

Strengthening contractual discipline in the textile industry. Tekst. prom. 23 no.10:40-44 0 '63. (MIRA 17:1)

l. Starshiy arbitr Upravleniya sherstyanoy i shelkovoy promyshlennosti Moskovskogo soveta narodnogo khozyaystva.

BRODSKIY, I.M.

Consolidation of wire broadcasting in the Stanislav Province.

Vest. sviazi 22 no.11:15-16 N '62. (MIRA 16:12)

1. Glavnyy inzh. Stanislavskoy direktsii radiotranslyatsionnoy seti.

BRODSKIY, I.M.

Establishment of duplex conference communications in industrial administrations (work practices of the communication workers of the Ivano-Frankovsk Province). Vest. sviazi 24 no.10:21-22 0 '64. (MIRA 17:12)

1. Glavnyy inzh. Ivano-Frankovskoy dvustoronney gruppovoy telefonnoy svyazi.

BRODSKIY, I.M., inzh.

Supervisory and signal equipment of the 2 PES-4.5 power sets having ND-9 petroleum motors and used at power stations of radio centers.

Trudy Sekt.radiofik. i VRS Ukr. MTORIE no.3:21-22 56.

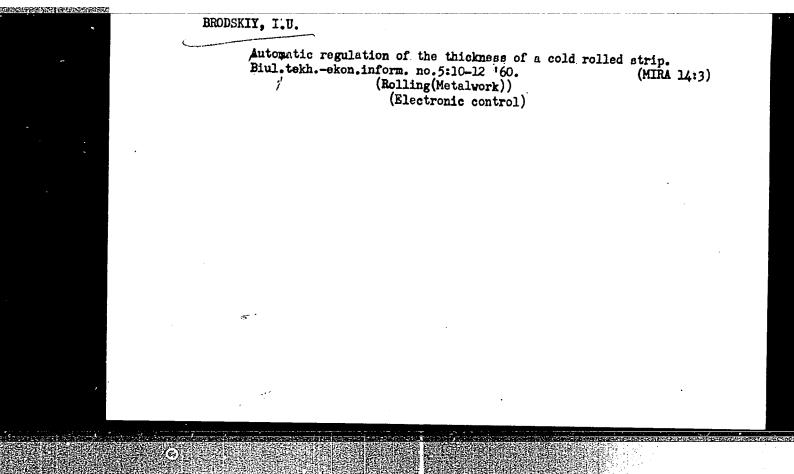
(MIRA 12:1)

(Radio-Equipment and supplies)

KOSTROMIN, V.G.; FEDOSOV, V.A.; BRODSKIY, I.S.

Model workshop. Mashinostroitel' no.8:30-32 A: '65.

(MIRA 18:11)



Automatic switching to three lines of a hot-rolling mill. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. no.4:7-9 '62.

(Rolling Mills)

(Rolling Mills)

Automatic stopping of a reversing mill. Mekh.i avtom.proizv. 17 no.11:5-6 N '63. (MIRA 17:4)

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1132, 1068

8/193/60/000/005/003/012 A004/A001

AUTHOR:

Brodskiy, I.Y.

TITLE:

Automatic Gage Control During the Cold-Rolling of Strip

PERIODICAL:

Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 5, pp.

TEXT: The Leningradskiy staleprokatnyy zavod (Leningrad Steel Rolling Mill) in cooperation with the Tsentral naya laboratoriya avtomatiki (Central Laboratory of Automation) and the Leningradskiy politekhnicheskiy institut (Leningrad Polytechnic Institute) has developed systems of automatic gage control for the coldrolling of strips on four-high and twelve-high reversing cold-rolling mills. The roughing operation is carried out on the 4/222 four-high mill. The initial material is hot-rolled strip. of 3-3.5 mm thickness. The minimum end gage is 0.5 mm with \pm 0.05 mm allowance. This strip is the initial product for the coldrolling of a 0.08-0.10 mm strip with an allowance of \pm 10 μ . The author points out that the flying micrometers used as pickups in both control systems and mounted at some distance from the rolls cause a lag of the acting signal in the control system, which leads to an "overadjustment" of the strip gage. If, e.g. the strip thickness exceeds the given standard, the motors of the pressure device act on the

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S/193/60/000/005/003/012 A004/A001

Automatic Gage Control During the Cold-Rolling of Strip

rolls which are drawn together, so that the strip gage is being reduced gradually. When the standard strip gage is attained the micrometer still shows some positive deviation, but if the micrometer shows the standard thickness the actual strip gage is already below standard, i.e. that the former deviation has been "overadjusted". A far greater accuracy and improved quality control is effected by the time-pulse control system used on the reversing four-high cold-rolling mill. With the aid of a scale on the micrometer the required gage is set, while any deviation from the given thickness, through an electron relay pulse generator, is signalled to an electron amplifier, then passed to the electromotor amplifier, thus acting on the pressure device motors. An analysis of the operation of the automatic system proves that the strip gage can be better controlled than is the case with manual control. Thus, e.g. if 08 grade strip is rolled with manual gage control the root-mean-square error is 12 μ , while it is only 9μ with automatic gage control. The best results are obtained with carbon and other hard strips which have considerable and frequent thickness fluctuations. Manual gage control with these strip grades results in fluctuations from -40 to +40 μ , while automatic gage control caused these deviations to decrease to 20-25 μ . Higher precision standards are required for the automatic gage control of strips worked Card 2/3

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Automatic Gage Control During the Cold-Rolling of Strip S/193/60/000/005/003/012

on the twelve-high mill since these strips are much thinner and have lower allowances. One of the main difficulties is the selection of the right play in the roll displacement system, which takes 2.5 seconds. Since the rolling speed on this mill is 5 m/sec, more than 12 m of non-controlled strip have passed before the play has been selected, which, of course, affects the strip quality. To obtain a higher control accuracy the system provides for an automatic effect simultaneously on the pressure device and the outgoing strip tension system. The front micrometer affects changes in the roll gap setting, while the rear micrometer, by way of varying the current of the rear coiler motor, changes the outgoing strip tension. Thus with deviations in thickness up to 3-4 µ gage control is effected by variations of the outgoing strip tension while deviations of $5\,\mu$ or more are compensated for by changing the roll gap setting. Radioactive non-contact MTV -495 (ITU-495) micrometers are used as pickups. The operation principle of the device is based on the dependence of the degree of beta-ray absorption of the radioactive isotope on the thickness of the material being measured. An ionization chamber serves as recording device of the quantity of passing radioactive rays. The device has two ionization chambers: one for operation and the second for compensation. Tests of this automatic gage control system showed that errors do not exceed $6-7\mu$ at a gage tolerance of 10 μ for 0.1 mm size strip.

Card 3/3

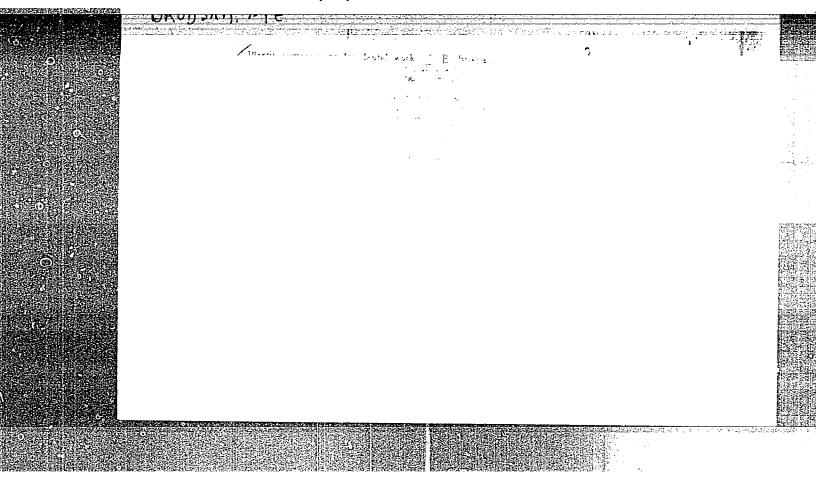
X

BRODSKIY, I.Ye., inzhener; ROFE, A.E., kandidat meditsinskikh nauk.

AKR-P plastic material and possibilities of its practical use in dental orthopedics. Stomatologiia no.5:53-54 S-0 *55. (MIRA 9:2)

1. Iz Khar'kovskogo zavoda zubovrachebnykh materialov (dir. Ye.G. Aronov)

(GUMS AND RESINS, SYNTHETIC) (DENTAL PROSTHESIS)



BRODSKIY, I.Ye.

Highly dispersed polymethylmethacrylate as a plastic for the medical supplies industry. Med. prom. 12 no.10:46-47 0 158 (MIRA 11:11)

Thar kovskiy saved subovrechebnykh materialov.
 (METHACRYLIC ACID)

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Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 18, p. 543, # 75438

AUTHORS:

Yukhnovskiy, G. L., Brodskiy, I. Ye.

TITLE:

Inhibition of Emulsion Polymerization of Methylmethacrylate

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1959, Vol. 26, No. 6, pp. 221-223

TEXT: For the purpose of reducing the intensity of the process of polymethylmethacrylate polymerization (in the presence of an initiator and emulsifier at 75 - 80°C) and of preventing the branching of the polymer chains with the formation of transverse bonds, a hydroquinone inhibitor was used as a regulator in an amount of 0.000 of the monomer weight. An investigation of the relative viscosity of polymethylmethacrylate sulutions in dichlorethane, of the specific impact toughness and yield limit in static bending of polymethylmethacrylate bars with and without admixtures of hydroquinone showed that its introduction somewhat reduced the molecular weight and the specific impact toughness of the polymer. However these changes affect only slightly the physical properties of the finished product. Moreover, the use of hydroquinone has a most favorable effect on the technological process: homogeneity increases (in respect to the screen composition)

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Inhibition of Emulsion Polymerization of Methylmethacrylate

as well as the yield of the commercial product; the conductance of the process is facilitated and the operational conditions of the equipment are improved.

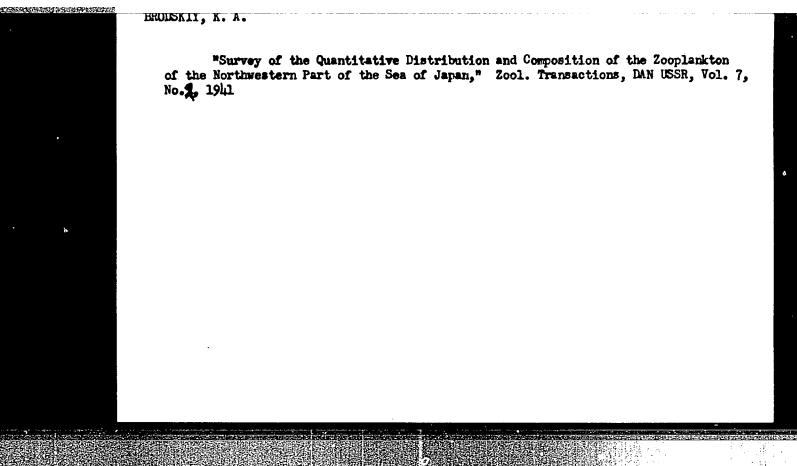
T. Renard

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010003-7"

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BRCDSFIY, K. A.

FA 67157

USER/Medicine - Marine Organisms

May 1948

Medicine - Plankton

"The Zoogeography of Clay in the Northwestern Part of the Pacific Ocean," K.A. Brodskiy, 4 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LX, No 6

Data presented is the result of hydrographic surveys conducted in the summer of 1946 to study the characteristics of deep-water planktor from the north-western parts of the Pacific Ocean. Submitted by Academician L.S. Berg 19 Mar 1948.

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